



SEQUENCE LISTING

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<120> ADENOVIRUS SEROTYPE 30 (AD30)

<130> 17023.013US2

<140> 10/621,006
<141> 2003-07-15

<150> 09/758,008
<151> 2001-01-09

<160> 24

<170> PatentIn Ver. 3.3

<210> 1
<211> 371
<212> PRT
<213> Adenovirus

<400> 1
Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
1 5 10 15
Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
20 25 30
Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
35 40 45
Lys Leu Ala Asp Pro Ile Ala Ile Thr Asn Gly Asp Val Ser Leu Lys
50 55 60
Val Gly Gly Gly Leu Thr Val Glu Gln Asp Ser Gly Asn Leu Ser Val
65 70 75 80
Asn Pro Lys Ala Pro Leu Gln Val Gly Thr Asp Lys Lys Leu Glu Leu
85 90 95
Ala Leu Ala Pro Pro Phe Asp Val Arg Asp Asn Lys Leu Ala Ile Leu
100 105 110
Val Gly Asp Gly Leu Lys Val Ile Asp Arg Ser Ile Ser Asp Leu Pro
115 120 125
Gly Leu Leu Asn Tyr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Asn
130 135 140
Glu Glu Leu Lys Asn Asp Asp Gly Ser Asn Lys Gly Val Gly Leu Cys
145 150 155 160
Val Arg Ile Gly Glu Gly Gly Leu Thr Phe Asp Asp Lys Gly Tyr
165 170 175

Leu Val Ala Trp Asn Asn Lys His Asp Ile Arg Thr Leu Trp Thr Thr
 180 185 190
 Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp Ile Glu Lys Asp Ser Lys
 195 200 205
 Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val
 210 215 220
 Ser Leu Ile Ile Val Asn Gly Lys Phe Lys Ile Leu Asn Asn Lys Thr
 225 230 235 240
 Asp Pro Ser Leu Pro Lys Ser Phe Asn Ile Lys Leu Leu Phe Asp Gln
 245 250 255
 Asn Gly Val Leu Leu Glu Asn Ser Asn Ile Glu Lys Gln Tyr Leu Asn
 260 265 270
 Phe Arg Ser Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile
 275 280 285
 Gly Phe Met Pro Asn Leu Leu Ala Tyr Ala Lys Ala Thr Thr Asp Gln
 290 295 300
 Ser Lys Ile Tyr Ala Arg Asn Thr Ile Tyr Gly Asn Ile Tyr Leu Asp
 305 310 315 320
 Asn Gln Pro Tyr Asn Pro Val Val Ile Lys Ile Thr Phe Asn Asn Glu
 325 330 335
 Ala Asp Ser Ala Tyr Ser Ile Thr Phe Asn Tyr Ser Trp Thr Lys Asp
 340 345 350
 Tyr Asp Asn Ile Pro Phe Asp Ser Thr Ser Phe Thr Phe Ser Tyr Ile
 355 360 365
 Ala Gln Glu
 370

<210> 2
 <211> 362
 <212> PRT
 <213> Adenovirus

 <400> 2
 Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
 1 5 10 15
 Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
 20 25 30
 Val Ser Ser Asp Gly Phe Gln Asn Phe Pro Pro Gly Val Leu Ser Leu
 35 40 45
 Lys Leu Ala Asp Pro Ile Ala Ile Val Asn Gly Asn Val Ser Leu Lys
 50 55 60

Val Gly Gly Gly Leu Thr Leu Gln Asp Gly Thr Gly Lys Leu Thr Val
 65 70 75 80
 Asn Ala Asp Pro Pro Leu Gln Leu Thr Asn Asn Lys Leu Gly Ile Ala
 85 90 95
 Leu Asp Ala Pro Phe Asp Val Ile Asp Asn Lys Leu Thr Leu Leu Ala
 100 105 110
 Gly His Gly Leu Ser Ile Ile Thr Lys Glu Thr Ser Thr Leu Pro Gly
 115 120 125
 Leu Arg Asn Thr Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
 130 135 140
 Ser Thr Asp Asn Gly Gly Thr Val Cys Val Arg Val Gly Glu Gly Gly
 145 150 155 160
 Gly Leu Ser Phe Asn Asn Asp Gly Asp Leu Val Ala Phe Asn Lys Lys
 165 170 175
 Glu Asp Lys Arg Thr Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys
 180 185 190
 Lys Ile Asp Gln Asp Lys Asp Ser Lys Leu Thr Leu Val Leu Thr Lys
 195 200 205
 Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile Val Val Asp Gly
 210 215 220
 Lys Tyr Lys Ile Ile Asn Asn Asn Thr Gln Pro Ala Leu Lys Gly Phe
 225 230 235 240
 Thr Ile Lys Leu Leu Phe Asp Glu Asn Gly Val Leu Met Glu Ser Ser
 245 250 255
 Asn Leu Gly Lys Ser Tyr Trp Asn Phe Arg Asn Glu Asn Ser Ile Met
 260 265 270
 Ser Thr Ala Tyr Glu Lys Ala Ile Gly Phe Met Pro Asn Leu Val Ala
 275 280 285
 Tyr Pro Lys Pro Thr Ala Gly Ser Lys Lys Tyr Ala Arg Asp Ile Val
 290 295 300 320
 Tyr Gly Asn Ile Tyr Leu Gly Gly Lys Pro Asp Gln Pro Val Thr Ile
 305 310 315 320
 Lys Thr Thr Phe Asn Gln Glu Thr Gly Cys Glu Tyr Ser Ile Thr Phe
 325 330 335
 Asp Phe Ser Trp Ala Lys Thr Tyr Val Asn Val Glu Phe Glu Thr Thr
 340 345 350
 Ser Phe Thr Phe Ser Tyr Ile Ala Gln Glu
 355 360

<210> 3
 <211> 366
 <212> PRT
 <213> Adenovirus

<400> 3
 Met Ser Lys Arg Leu Arg Val Glu Asp Asp Phe Asn Pro Val Tyr Pro
 1 5 10 15
 Tyr Gly Tyr Ala Arg Asn Gln Asn Ile Pro Phe Leu Thr Pro Pro Phe
 20 25 30
 Val Ser Ser Asp Gly Phe Lys Asn Phe Pro Pro Gly Val Leu Ser Leu
 35 40 45
 Lys Leu Ala Asp Pro Ile Thr Ile Ala Asn Gly Asp Val Ser Leu Lys
 50 55 60
 Val Gly Gly Gly Leu Thr Leu Gln Glu Gly Ser Met Thr Val Asp Pro
 65 70 75 80
 Lys Ala Pro Leu Gln Leu Ala Asn Asn Lys Lys Leu Glu Leu Val Tyr
 85 90 95
 Val Asp Pro Phe Glu Val Ser Ala Asn Lys Leu Ser Leu Lys Val Gly
 100 105 110
 His Gly Leu Lys Ile Leu Asp Asp Lys Ser Ala Gly Gly Leu Lys Asp
 115 120 125
 Leu Ile Gly Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Thr Glu
 130 135 140
 Asn Leu Gln Asn Thr Asp Gly Ser Ser Arg Gly Ile Gly Ile Ser Val
 145 150 155 160
 Arg Ala Arg Glu Gly Leu Thr Phe Asp Asn Asp Gly Tyr Leu Val Ala
 165 170 175
 Trp Asn Pro Lys Tyr Asp Thr Arg Thr Leu Trp Thr Thr Pro Asp Thr
 180 185 190
 Ser Pro Asn Cys Arg Ile Asp Lys Glu Lys Asp Ser Lys Leu Thr Leu
 195 200 205
 Val Leu Thr Lys Cys Gly Ser Gln Ile Leu Ala Asn Val Ser Leu Ile
 210 215 220
 Val Val Ser Gly Lys Tyr Gln Tyr Ile Asp His Ala Thr Asn Pro Thr
 225 230 235 240
 Leu Lys Ser Phe Lys Ile Lys Leu Leu Phe Asp Asn Lys Gly Val Leu
 245 250 255
 Leu Pro Ser Ser Asn Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp
 260 265 270

Asn Leu Thr Val Ser Glu Ala Tyr Lys Asn Ala Val Glu Phe Met Pro
 275 280 285
 Asn Leu Val Ala Tyr Pro Lys Pro Thr Thr Gly Ser Lys Lys Tyr Ala
 290 295 300
 Arg Asp Ile Val Tyr Gly Asn Ile Tyr Leu Gly Gly Leu Ala Tyr Gln
 305 310 315 320
 Pro Val Val Ile Lys Val Thr Phe Asn Glu Glu Ala Asp Ser Ala Tyr
 325 330 335
 Ser Ile Thr Phe Glu Phe Val Trp Asn Lys Glu Tyr Ala Arg Val Glu
 340 345 350
 Phe Glu Thr Thr Ser Phe Thr Phe Ser Tyr Ile Ala Gln Gln
 355 360 365

<210> 4
 <211> 330
 <212> PRT
 <213> Adenovirus

<400> 4
 Met Ala Lys Arg Ala Arg Leu Ser Thr Ser Phe Asn Pro Val Tyr Pro
 1 5 10 15
 Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe
 20 25 30
 Ile Ser Pro Asp Gly Phe Thr Gln Ser Pro Asn Gly Val Leu Ser Leu
 35 40 45
 Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Ser Leu Gln Leu Lys
 50 55 60
 Val Gly Ser Gly Leu Thr Val Asp Thr Thr Asp Gly Ser Leu Glu Glu
 65 70 75 80
 Asn Ile Lys Val Asn Thr Pro Leu Thr Lys Ser Asn His Ser Ile Asn
 85 90 95
 Leu Pro Ile Gly Asn Gly Leu Gln Ile Glu Gln Asn Lys Leu Cys Ser
 100 105 110
 Lys Leu Val Val Leu Thr Gly Lys Gly Ile Gly Lys Leu Gly Asn Gly
 115 120 125
 Leu Thr Phe Asp Ser Ser Asn Ser Ile Ala Leu Lys Asn Asn Thr Leu
 130 135 140
 Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile Ile Glu Tyr Gly Lys
 145 150 155 160
 Gln Asn Pro Asp Ser Lys Leu Thr Leu Ile Leu Val Lys Asn Gly Gly
 165 170 175

Ile Val Asn Gly Tyr Val Thr Leu Met Gly Ala Ser Asp Tyr Val Asn
 180 185 190
 Thr Leu Phe Lys Asn Lys Asn Val Ser Ile Asn Val Glu Leu Tyr Phe
 195 200 205
 Asp Ala Thr Gly His Ile Leu Pro Asp Ser Ser Ser Leu Lys Thr Asp
 210 215 220
 Leu Glu Leu Lys Tyr Lys Gln Thr Ala Asp Phe Ser Ala Arg Gly Phe
 225 230 235 240
 Met Pro Ser Thr Thr Ala Tyr Pro Phe Val Leu Pro Asn Ala Gly Thr
 245 250 255
 His Asn Glu Asn Tyr Ile Phe Gly Gln Cys Tyr Tyr Lys Ala Ser Asp
 260 265 270
 Gly Ala Leu Phe Pro Leu Glu Val Thr Val Met Leu Asn Lys Arg Leu
 275 280 285
 Pro Asp Ser Arg Thr Ser Tyr Val Met Thr Phe Leu Trp Ser Leu Asn
 290 295 300
 Ala Gly Leu Ala Pro Glu Thr Thr Gln Ala Thr Leu Ile Thr Ser Pro
 305 310 315 320
 Phe Thr Phe Ser Tyr Ile Arg Glu Asp Asp
 325 330

<210> 5
 <211> 581
 <212> PRT
 <213> Adenovirus

<400> 5
 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro
 1 5 10 15
 Tyr Asp Thr Glu Thr Gly Pro Pro Thr Val Pro Phe Leu Thr Pro Pro
 20 25 30
 Phe Val Ser Pro Asn Gly Phe Gln Glu Ser Pro Pro Gly Val Leu Ser
 35 40 45
 Leu Arg Leu Ser Glu Pro Leu Val Thr Ser Asn Gly Met Leu Ala Leu
 50 55 60
 Lys Met Gly Asn Gly Leu Ser Leu Asp Glu Ala Gly Asn Leu Thr Ser
 65 70 75 80
 Gln Asn Val Thr Thr Val Ser Pro Pro Leu Lys Lys Thr Lys Ser Asn
 85 90 95
 Ile Asn Leu Glu Ile Ser Ala Pro Leu Thr Val Thr Ser Glu Ala Leu
 100 105 110

Thr Val Ala Ala Ala Ala Pro Leu Met Val Ala Gly Asn Thr Leu Thr
 115 120 125

Met Gln Ser Gln Ala Pro Leu Thr Val His Asp Ser Lys Leu Ser Ile
 130 135 140

Ala Thr Gln Gly Pro Leu Thr Val Ser Glu Gly Lys Leu Ala Leu Gln
 145 150 155 160

Thr Ser Gly Pro Leu Thr Thr Asp Ser Ser Thr Leu Thr Ile Thr
 165 170 175

Ala Ser Pro Pro Leu Thr Thr Ala Thr Gly Ser Leu Gly Ile Asp Leu
 180 185 190

Lys Glu Pro Ile Tyr Thr Gln Asn Gly Lys Leu Gly Leu Lys Tyr Gly
 195 200 205

Ala Pro Leu His Val Thr Asp Asp Leu Asn Thr Leu Thr Val Ala Thr
 210 215 220

Gly Pro Gly Val Thr Ile Asn Asn Thr Ser Leu Gln Thr Lys Val Thr
 225 230 235 240

Gly Ala Leu Gly Phe Asp Ser Gln Gly Asn Met Gln Leu Asn Val Ala
 245 250 255

Gly Gly Leu Arg Ile Asp Ser Gln Asn Arg Arg Leu Ile Leu Asp Val
 260 265 270

Ser Tyr Pro Phe Asp Ala Gln Asn Gln Leu Asn Leu Arg Leu Gly Gln
 275 280 285

Gly Pro Leu Phe Ile Asn Ser Ala His Asn Leu Asp Ile Asn Tyr Asn
 290 295 300

Lys Gly Leu Tyr Leu Phe Thr Ala Ser Asn Asn Ser Lys Lys Leu Glu
 305 310 315 320

Val Asn Leu Ser Thr Ala Lys Gly Leu Met Phe Asp Ala Thr Ala Ile
 325 330 335

Ala Ile Asn Ala Gly Asp Gly Leu Glu Phe Gly Ser Pro Asn Ala Pro
 340 345 350

Asn Thr Asn Pro Leu Lys Thr Lys Ile Gly His Gly Leu Glu Phe Asp
 355 360 365

Ser Asn Lys Ala Met Val Pro Lys Leu Gly Thr Gly Leu Ser Phe Asp
 370 375 380

Ser Thr Gly Ala Ile Thr Val Gly Asn Lys Asn Asn Asp Lys Leu Thr
 385 390 395 400

Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn Ala Glu
 405 410 415

Lys Asp Ala Lys Leu Thr Leu Val Leu Thr Lys Cys Gly Ser Gln Ile
 420 425 430

Leu Ala Thr Val Ser Val Leu Ala Val Lys Gly Ser Leu Ala Pro Ile
 435 440 445

Ser Gly Thr Val Gln Ser Ala His Leu Ile Ile Arg Phe Asp Glu Asn
 450 455 460

Gly Val Leu Leu Asn Asn Ser Phe Leu Asp Pro Glu Tyr Trp Asn Phe
 465 470 475 480

Arg Asn Gly Asp Leu Thr Glu Gly Thr Ala Tyr Thr Asn Ala Val Gly
 485 490 495

Phe Met Pro Asn Leu Ser Ala Tyr Pro Lys Ser His Gly Lys Thr Ala
 500 505 510

Lys Ser Asn Ile Val Ser Gln Val Tyr Leu Asn Gly Asp Lys Thr Lys
 515 520 525

Pro Val Thr Leu Thr Ile Thr Leu Asn Gly Thr Gln Glu Thr Gly Asp
 530 535 540

Thr Thr Pro Ser Ala Tyr Ser Met Ser Phe Ser Trp Asp Trp Ser Gly
 545 550 555 560

His Asn Tyr Ile Asn Glu Ile Phe Ala Thr Ser Ser Tyr Thr Phe Ser
 565 570 575

Tyr Ile Ala Gln Glu
 580

<210> 6
 <211> 32
 <212> DNA
 <213> Adenovirus

<400> 6
 cgggatccgc caccatgtca aagaggctcc gg

32

<210> 7
 <211> 28
 <212> DNA
 <213> Adenovirus

<400> 7
 cgggatcctr attcttgggc yatataagg

28

<210> 8
 <211> 27
 <212> DNA
 <213> Adenovirus

<400> 8		
cgcgatccg cgatgaagcg cgcaaga		27
<210> 9		
<211> 36		
<212> DNA		
<213> Adenovirus		
<400> 9		
gattgggtca gccagttca aagagagta cccagg		36
<210> 10		
<211> 33		
<212> DNA		
<213> Adenovirus		
<400> 10		
cctgggtac tctcttgaa actggctgac cca		33
<210> 11		
<211> 27		
<212> DNA		
<213> Adenovirus		
<400> 11		
aaaactagtt cattcttggg cgatata		27
<210> 12		
<211> 1116		
<212> DNA		
<213> Adenovirus		
<400> 12		
atgtcaaaga ggctccgggt ggaagatgac ttcaaccccg tctaccctta tggctacg 60		
cggaaatcaga atatcccctt ccttactccc ccctttgtct catccgatgg attcaaaaac 120		
ttcccacctg gggctctgtc actcaaactg gctgacccaa tcgccatcac taatggggat 180		
gtctcactca aggtgggagg gggactaact gtggaacaag atagtggaaa cctaagtgt 240		
aaccctaagg ctccattgca agttggaaaca gacaaaaaac tggaaattggc tttagcacct 300		
ccattttagt tcagagataa caagctagct attcttagtag gagatggatt aaaggtataa 360		
gataagatcaa tatctgattt gccaggtttg ttaaactatc ttgttagttt gactggcaaa 420		
ggaattgaa atgaagaatt aaaaaatgac gatggtagca ataaaggagt cggttatgt 480		
gtgagaattg gagaaggagg tggtttaact ttgatgata aaggttattt agtagcatgg 540		
acaataaac atgacatccg cacactttgg acaactttag acccttctcc aaattgtaa 600		
atagatatac aaaaagactc aaaactaact ttgtactga caaagtgcgg aagttagatt 660		
ttggcaaatg tatctctaat tatgtcaac ggaaggtca agatcctaa taacaaaaca 720		
gaccatccc tacctaaatc attaacatc aaactactgt ttgatcaaaa tggagttcta 780		
ttggaaaatt caaacattga aaaacagtac ctaaacttta gaagtggaga ctctattctt 840		
ccagagccat ataaaaatgc aattggattt atgcctatt tactagctt tgctaaagct 900		
acaactgatc agtctaaaat ttatgcaagg aacactat atggaaatat ctacttagat 960		
aatcagccat ataatccagt tggatattaaa attactttt ataatgaagc agatagtgt 1020		
tattctatca ctttaacta ttcatggacc aaggactatg acaatatccc ttttgattct 1080		
acttcattta ccttctccta tatcgcccaa gaatga		1116

<210> 13
<211> 14
<212> PRT
<213> Adenovirus

<400> 13
Leu Trp Thr Thr Leu Asp Pro Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 14
<211> 14
<212> PRT
<213> Adenovirus

<400> 14
Leu Trp Thr Thr Pro Ala Pro Ser Pro Asn Cys Arg Leu Asn
1 5 10

<210> 15
<211> 14
<212> PRT
<213> Adenovirus

<400> 15
Leu Trp Thr Thr Pro Asp Pro Ser Pro Asn Cys Arg Ile His
1 5 10

<210> 16
<211> 14
<212> PRT
<213> Adenovirus

<400> 16
Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 17
<211> 14
<212> PRT
<213> Adenovirus

<400> 17
Leu Trp Thr Thr Pro Asp Thr Ser Pro Asn Cys Lys Ile Asp
1 5 10

<210> 18
<211> 14
<212> PRT
<213> Adenovirus

<400> 18
Leu Trp Thr Gly Pro Lys Pro Glu Ala Asn Cys Ile Ile Glu
1 5 10

<210> 19
<211> 18
<212> PRT
<213> Adenovirus

<400> 19
Gly Asp Ser Ile Leu Pro Glu Pro Tyr Lys Asn Ala Ile Gly Phe Met
1 5 10 15

Pro Asn

<210> 20
<211> 18
<212> PRT
<213> Adenovirus

<400> 20
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1 5 10 15

Thr Ala

<210> 21
<211> 18
<212> PRT
<213> Adenovirus

<400> 21
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1 5 10 15

Asn Pro

<210> 22
<211> 18
<212> PRT
<213> Adenovirus

<400> 22
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1 5 10 15

Thr Ala

<210> 23
<211> 18
<212> PRT
<213> Adenovirus

<400> 23

Leu Asp Ser Thr Tyr Trp Asn Phe Arg Ser Asp Asn Leu Thr Val Ser
1 5 10 15

Glu Ala

<210> 24

<211> 8

<212> PRT

<213> Adenovirus

<400> 24

Ser Ala Arg Gly Phe Met Pro Ser
1 5